

WHAT IS CLAIMED IS:

1. A method for imaging relative elastic properties of tissue, the method comprising vibrating an area of tissue of interest and capturing a power Doppler image of at least part  
5 of the vibrating tissue.
2. A method as claimed in claim 1 further comprising capturing a B-scan image and using the B-scan image to compensate the power Doppler image.
- 10 3. A method as claimed in claim 2 wherein the B-scan image is captured simultaneously with the power Doppler image.
4. A method as claimed in claim 1 comprising applying a probe to the patient's body, the probe being operable to cause vibration of the area of tissue of interest.  
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5. A method as claimed in claim 3, wherein the probe comprises an acoustic speaker.
6. A method as claimed in claim 4 wherein the probe comprises a tissue contact pad or disc for transferring vibrations to the area of tissue of interest.  
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7. A method as claimed in claim 2 comprising applying a probe to the patient's body, the probe being operable to cause vibration of the area of tissue of interest.

8. A method as claimed in claim 3 comprising applying a probe to the patient's body, the probe being operable to cause vibration of the area of tissue of interest.

9. A method as claimed in claim 5 wherein the probe comprises a tissue contact pad  
5 or disc for transferring vibrations to the area of tissue of interest.